



### How do I create a stratigraphic cross section?

1. Click on **Applications** on the *Main Menu Bar* and select **Correlation** from the pull down menu.
2. If you have several maps in a project, select a map from the list and **Click Accept**.
3. If your project contains deviated wells, **Click the Depth Basis** button on the power bar and select TVD-SL, as the basis. Next, select a reference horizon by clicking on **Ref. Hz.** and choosing a Z variable from the list. The reference horizon is the horizon location for the map coordinates. Thus, where many wells are drilled from a central location, you can set the reference horizon to a formation further down the hole. Each borehole track is then plotted separately on the map. Click **Exit Cross Section** on the bottom of the panel after selecting your reference horizon. In a vertical well project the *Depth Control Basis* should be set to **Measured Depth**.

*Note: Map points should be already linked to well files. Well files should contain valid KB information.*

*If a project has deviated wells, borehole geometry data must be present (TVD-SL, YDEV, and XDEV). Well files should have correct surface locations.*

4. (Optional) Click on **Pick List** on the power bar. You will be presented with a **Pick Information Panel** window. Click **Select Picks**. Choose desired picks for display. Click on **Accept**. Click **Close**. If no picks are selected, all picks will be shown.
5. Click on the **Zig-Zag** button.
6. Create a line of section by clicking on **Create Section** and connecting well points on the map with the cursor. Click the **Accept** button. (If some section lines were previously saved and are already displayed on the map, you may use **Section** combo box. Next, select a section by clicking on one of the section lines. The cross section in a stick mode appears).
7. On the next panel make sure that the **Section Type** combo box is set to **Stratigraphic**.
8. Click the **Datum** button and select the formation you want to use as a datum. Click on **Accept**. The cross section will be redrawn.
9. The **Top Depth** (subsea elevation) value will be set to zero. To show a certain number of meters or feet of the depth interval above the datum, set the **Top Depth** to this number, e.g. 50. Do it by placing a cursor inside the **Top Depth** dialog box and typing a value. To show a certain number of meters or feet of the depth interval below the datum, set the **Bottom Depth** to this number in a similar manner, e.g. - 50.
10. If necessary, set the **Vertical Scale** by typing a number in the dialog box.

11. Other parameters of the **Well Display** setup are accessed via the **Well Display** button on the power bar. This will open the **Well Display Properties** window. Here you should set the the **Format** combo box to **Final IMAGELog**, then Click the **Select Default Image** button.
12. Restore a previously saved setup by clicking on the Restore Image button and selecting a setup from the list. To create a new composite log image, Click on **Create New Image** and use the *IMAGELog* module. See the accompanying document, [How do I build a simple IMAGELog template?](#)
13. Click **Close** to return to the **Well Display Properties** window. Click **Ok** to close this window when you are finished setting everything to your satisfaction.

**Thank you for using TerraStation**